AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer implemented executable code check system comprising:

an input component that receives an object file and a specification associated with the object file, the specification comprising information associated with a plug-in condition for a method, the plug-in condition parses contents of a query string and makes the content available to a checker as part of a program's approximate execution state; and,

- [[a]] the checker that employs the specification to facilitate static checking of the object file, the checker passing a user injected custom state to the plug-in condition to check a fault condition and providing information if the fault condition is determined.
- 2. (Original) The system of claim 1, the plug-in condition comprising a precondition for the method.
- 3. (Original) The system of claim 2, the checker providing information associated with an object's state after a call to the method, the information being based, at least in part, upon the plug-in precondition.
- 4. (Original) The system of claim 1, the plug-in condition comprising a postcondition for the method.
- 5. (Original) The system of claim 4, the checker providing information associated with an object's state after a call to the method, the information being based, at least in part, upon the plug-in postcondition.

- 6. (Original) The system of claim 1, the object file being based, at least in part, upon a language that compiles to Common Language Runtime.
- 7. (Original)The system of claim 1, the object file being based, at least in part, upon at least one of C#, Visual Basic.net and Managed C++.
- 8. (Original) The system of claim 1, the specification comprising information associated with a state-machine protocol.
- 9. (Original) The system of claim 8, a state of an object modeled with a custom state.
- 10. (Original) The system of claim 9, the state of the object further being modeled with a custom state component.
- 11. (Original) The system of claim 10, the specification comprising at least one of a plug-in precondition and a plug-in postcondition method, which is a method of the custom state that is invoked by the checker to perform interface-specific state checks and state transitions.
- 12. (Original) The system of claim 1, wherein the specification is embedded with the object file.
- 13. (Original) The system of claim 1, wherein the specification is stored in a specification repository.
- 14. (Original) The system of claim 1, further comprising a specification extractor that queries a database for its schema and stores information associated with the schema in a specification repository.

15. (Currently Amended) A method of facilitating static checking of executable code comprising:

receiving executable code;

receiving a specification associated with the executable code, the specification comprising information associated with at least one of a precondition or a postcondition for a method, the at least one of a precondition or a postcondition parses contents of a query string and makes the content available to a checker as part of a program's approximate execution state;

statically applying the specification to the executable code by passing a user injected custom state to the at least one precondition or postcondition;

determining whether a fault condition exists based, at least in part, upon the statically applied specification; and,

providing information associated with the fault condition, if a fault condition is determined to exist.

- 16. (Original) A computer readable medium having stored thereon computer executable instructions for carrying out the method of claim 15.
- 17. (Currently Amended) A method of developing a software component comprising: implementing a subclass of a custom state class;

implementing at least one of a plug-in precondition or a plug-in postcondition as a method of the subclass, the at least one of a plug-in precondition or a plug-in postcondition parses contents of a query string and makes the content available to a checker as part of a program's approximate execution state;

placing a custom attribute on an enclosing type declaration that references the custom state subclass;

placing an attribute on a declaration that references the at least one of a plug-in precondition or a plug-in postcondition; and

determining a fault condition based <u>in part</u> upon the information from the at least one of plug-in precondition or a plug-in postcondition.

- 18. (Original) A computer readable medium having stored thereon computer executable instructions for carrying out the method of claim 17.
- 19. (Currently Amended) A method of performing static checking of executable code comprising:

invoking a precondition plug-in that is arbitrary code written by a programmer, providing the precondition plug-in with a program execution state at the call to a method;

receiving information from the precondition plug-in, the precondition plug-in parses contents of a query string and makes the content available to a checker as part of a program's approximate execution state to enable the checker to find defects in the query;

determining whether a fault condition exists based, at least in part, upon the information from the pre-condition plug-in; and,

providing information associated with the fault condition, if a fault condition is determined to exist.

20. (Original) The method of claim 19, further comprising at least one of the following:

invoking a postcondition plug-in, providing the postcondition plug-in with the program execution state; and,

receiving information from the postcondition plug-in.

- 21. (Cancelled)
- 22. (Currently Amended) A computer readable medium storing computer executable components of an executable code check system comprising:

an input component that receives an object file and a specification associated with the object file, the specification comprising information associated with a plug-in condition for a method, the plug-in condition parses contents of a query string and makes the content available to a checker component as part of a program's approximate execution state; and,

- [[a]] the checker component that employs the specification to facilitate static checking of the object file, the checker component passing a user injected custom state to the plug-in condition to check a fault condition and providing information if the fault condition is determined.
- 23. (Currently Amended) A computer implemented executable code check system comprising:

means for receiving a specification associated with an object file, the specification comprising information associated with a plug-in condition for a method, the plug-in condition parses contents of a query string and makes the content available to a checker as part of a program's approximate execution state;

means for statically checking the object file based, at least in part, upon the specification;

means for passing a user injected custom state to the plug-in condition and determining if a fault condition exists; and,

means for providing information if a fault condition is determined to exist.

24. (Currently Amended) A method of performing static checking of executable code comprising:

receiving a request, the request including a parameter;

receiving a plug-in condition that parses contents of a query string and makes the content available to a checker as part of a program's approximate execution state;

setting a type of a result of a method call to a type of the parameter; employing the parameter only during static checking of the method; and performing component-wise comparison of a user injected custom state and a state defined by the parameter to determine a fault condition.